

CLAIMS

1. An IC card, comprising:

a holder configured to store first digital contents;

5 a certificate data storage configured to store
certificate data including key information associated with the
first digital contents;

an encryption processor; and

an execution processor;

10 the execution processor being configured to execute a
predetermined command when receiving a predetermined trigger
signal;

wherein the predetermined command executed by the
execution processor causes the execution processor to store a
15 state of the IC card before transmission of the first digital
contents; causes the encryption processor to perform an
encryption process on the first digital contents, based on the
key information associated with the first digital contents;
deletes the first digital contents from the holder when a commit
20 instruction indicating completion of a reception process on the
encrypted first digital contents is received from a destination
device; and performs a return process to the state of the IC
card stored in the execution processor when a transmission
process on the first digital contents is interrupted.

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2. The IC card as set forth in claim 1, wherein the
predetermined command executed by the execution processor
transmits a transmission request for second digital contents
to the destination device when the commit instruction is

received, and deletes the first digital contents from the holder when a reception process on the second digital contents is completed.

- 5 3. The IC card as set forth in claim 1, further comprising:
 an authenticator configured to obtain certificate data
 of the destination device from the destination device, and to
 authenticate the destination device based on the certificate
 data, prior to transmission of the first digital contents;
10 wherein the execution processor is configured to execute
 the predetermined command when the destination device is
 authenticated.

- 15 4. The IC card as set forth in claim 3, wherein the
 authenticator is configured to set an access level to the first
 digital contents stored in the holder, according to a session
 ID identifying a session with the destination device and a
 session mode.

- 20 5. The IC card as set forth in claim 3, wherein:
 the authenticator is configured to transmit the
 certificate data stored in the certificate data storage to the
 destination device, and to obtain from the destination device
 an authentication confirmation notice indicating that the
25 certificate data has been authenticated, prior to transmission
 of the first digital contents; and
 the execution processor is configured to execute the
 predetermined command when the authentication confirmation
 notice is obtained.

6. A terminal which transmits first digital contents stored in an IC card to a destination device, comprising:

a controller configured to output a predetermined trigger
5 signal to the IC card, based on an input operation signal;
wherein:

an execution processor of the IC card is configured to
execute a predetermined command in response to the
predetermined trigger signal; and

10 the predetermined command executed by the execution
processor causes the execution processor to store a state of
the IC card before transmission of the first digital contents;
causes an encryption processor of the IC card to perform an
encryption process on the first digital contents, based on key
15 information associated with the first digital contents; deletes
the first digital contents from a holder of the IC card when
a commit instruction indicating completion of a reception
process on the encrypted first digital contents is received from
the destination device; and performs a return process to the
20 state of the IC card stored in the execution processor when a
transmission process on the first digital contents is
interrupted.

7. The terminal as set forth in claim 6, wherein the
25 predetermined command executed by the execution processor
transmits a transmission request for second digital contents
to the destination device when the commit instruction is
received, and deletes the first digital contents from the holder
when a reception process on the second digital contents is

completed.

8. The terminal as set forth in claim 6, further comprising a communication monitor configured to inform the IC card of an interruption of the transmission process on the first digital contents when there is no response from the destination device during a lapse of a predetermined waiting time after transmission of the first digital contents from the IC card to the destination device.

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9. The terminal as set forth in claim 6, further comprising a display configured to read information on the first digital contents from the holder for display, based on an access level set according to a session ID identifying a session established between the IC card and the destination device and a session mode.

10. A data communications method of transmitting first digital contents stored in an IC card to a destination device, comprising the steps of:

executing a predetermined command when the IC card receives a predetermined trigger signal;

storing a state of the IC card before transmission of the first digital contents;

25 performing an encryption process on the first digital contents, based on key information associated with the first digital contents;

deleting the first digital contents from a holder of the IC card when a commit instruction indicating completion of a

reception process on the encrypted first digital contents is received from the destination device; and

performing a return process to the stored state of the IC card when a transmission process on the first digital
5 contents is interrupted.

11. The data communications method as set forth in claim 10, further comprising the steps of:

transmitting a transmission request for second digital
10 contents to the destination device when the commit instruction is received; and

deleting the first digital contents from the holder when a reception process on the second digital contents is completed.

15 12. The data communications method as set forth in claim 10, further comprising the step of, at a terminal loaded with the IC card, outputting the predetermined trigger signal to the IC card, based on an input operation signal.